

10/560723  
IAP9 Rec'd PCT/PTO 15 DEC 2009

B0213WO seq.list.ST25.txt  
SEQUENCE LISTING

<110> EXONHIT THERAPEUTICALS

<120> PROSTATE SPECIFIC GENES AND THE USE THEREOF AS TARGETS FOR PROSTATE CANCER  
THERAPY AND DIAGNOSIS

<130> B0213WO

<160> 185

<170> PatentIn version 3.1

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<213> Homo sapiens

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<211> 168

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 508

<212> DNA

<213> Homo sapiens

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<211> 124

<212> DNA

<213> Homo sapiens

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<210> 15

<211> 132

<212> DNA

<213> Homo sapiens

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<211> 124

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&lt;210&gt; 17

&lt;211&gt; 489

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 17

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&lt;211&gt; 244

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 18

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 ataagggtga gcaaagctgc caggcccaca ggagagagag cccacaggag ccctggatcc 180  
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&lt;210&gt; 19

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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aagagtggtg gccta 195

<210> 20

<211> 346

<212> DNA

<213> Homo sapiens

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tgtgataaga gtttataatc ctatataagag acagatgtat taaaatggat ttttttttt 240  
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<211> 168

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<213> Homo sapiens

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<211> 435

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 258

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 223

<212> DNA

<213> Homo sapiens

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<211> 249

<212> DNA

<213> Homo sapiens

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tacagtgcct tctagctgtg gttagtctgtg tctccaagga ccaacccttc catttctgag 180  
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<211> 226

<212> DNA

<213> Homo sapiens

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<211> 372

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<210> 33  
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<212> DNA  
<213> Homo sapiens

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B0213W0 seq list.ST25.txt

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<211> 443

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<211> 272

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<213> Homo sapiens

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gttcatct tgccgacctg aattcggtag cgagagatga agttaggttt tcctgttg 180  
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<213> Homo sapiens

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<211> 315

<212> DNA

<213> Homo sapiens

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<211> 127

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<211> 408

<212> DNA

<213> Homo sapiens

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gagaaaaaaaaa attagatgaa ggttaaccat taaaaagctg cagttggaa aacacacact 180  
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ctggtttta gtgtaacaca ctttggggaa aaatatcaact gtcctttct tgcccccaatt 360  
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<210> 41

<211> 314

<212> DNA

<213> Homo sapiens

<400> 41  
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ttggtctgaa tgactggat gatgatgaga tcctagcttc ggtgctggca gtgtcccaac 180  
aggaataacct agacagtatg aaaaaaaca aagtgcacag agacccgccc ccagacaaga 240  
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B0213wo.seq.list.ST25.txt

gccacctcac cgcc

314

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<211> 352

<212> DNA

<213> Homo sapiens

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ggcagtgcct gtggctctgg cagagacact ggccctgcgg gcaagcaggg ctcgcaccag 300  
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<210> 43

<211> 292

<212> DNA

<213> *Homo sapiens*

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<210> 44

<211> 372

<212> - DNA

<213> Homo sapiens

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ctacgttatt actgggtttt gctctccaat ttcccttattt tcccttgctc ccaaccacat 300  
caacagaaca acaacaaaaa gaatccttta tcttcatgca acactacagt agtacagagc 360  
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<210> 45

<211> 158

<212> DNA

<213> Homo sapiens

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aagtggcaat gaggacacct gcaggagggg ctagcctt 158

<210> 46

<211> 157

<212> DNA

<213> Homo sapiens

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<210> 47

<211> 310

<212> DNA

<213> Homo sapiens

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B0213WO seq list.ST25.txt

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acccctcccc 310

<210> 48

<211> 124

<212> DNA

<213> Homo sapiens

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aagg 124

<210> 49

<211> 191

<212> DNA

<213> Homo sapiens

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<211> 305

<212> DNA

<213> Homo sapiens

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gctcg 305

<210> 51  
<211> 108  
<212> DNA  
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<210> 52  
<211> 439  
<212> DNA  
<213> Homo sapiens

<400> 52  
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<210> 53  
<211> 234  
<212> DNA  
<213> Homo sapiens

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 gaaaggctca ctctccagcc tcaggaccaa cttacacacc tgctagaaag cctcactctc 180  
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<210> 54

<211> 92

<212> DNA

<213> Homo sapiens

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<210> 55

<211> 164

<212> DNA

<213> Homo sapiens

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<210> 56

<211> 202

<212> DNA

<213> Homo sapiens

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B0213WO seq list.ST25.txt

<210> 57

<211> 314

<212> DNA

<213> Homo sapiens

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<210> 58

<211> 92

<212> DNA

<213> Homo sapiens

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<210> 59

<211> 179

<212> DNA

<213> Homo sapiens

<400> 59  
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<210> 60

<211> 89

B0213WO seq list.ST25.txt

<212> DNA

<213> Homo sapiens

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<210> 61

<211> 169

<212> DNA

<213> Homo sapiens

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<210> 62

<211> 171

<212> DNA

<213> Homo sapiens

<400> 62  
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<210> 63

<211> 140

<212> DNA

<213> Homo sapiens

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catttgct gtcacttccc

<210> 64  
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 <213> Homo sapiens

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 aacatatgaa agttatttgt agggaaagag tcctgagggg caacacaccaa gaaccaggtc 180  
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<210> 66  
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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 67

&lt;211&gt; 1982

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<210> 68

<211> 2306

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<211> 206

<212> DNA

<213> Homo sapiens

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&lt;212&gt; DNA

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<211> 2006

<212> DNA

<213> Homo sapiens

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ggcctgaccc	ataacgcttc	tcaatcacta	gtgcggccgc	ctgcaggtcg	accataatggg	420
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B0213WO seq list.ST25.txt

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<211> 437

<212> DNA

<213> Homo sapiens

<400> 109

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gacttgcttc	tagttgagat	tatctacatt	acataaggct	ccatcttgga	gtaagagatt	300
tctctgctgg	ccctgaagta	gcagctatgt	tgtgaacagc	caatggagaa	agccatatgg	360
cagagacctg	caacagaagg	tggacctgaa	ggtggcctct	ggtcaccagc	aacagccccca	420
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<210> 110

<211> 244

<212> DNA

<213> Homo sapiens

<400> 110

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tccaaagggt	cttcagcggt	attccaaaga	agtttgcgtc	ctcgagggtt	aacggttctc	180
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caga						244

<210> 111

<211> 272

<212> DNA

<213> Homo sapiens

<400> 111

B0213WO seq list.ST25.txt  
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agaagtacag caccatgtg gcaagtcggg agtagcacca atgcccgtga agaatcaaga 180  
gcctctccag gtatcggaaat ttcggcactg caaagtgcgt ggccatcact gccttcaaag 240  
ggagagggat tcctgttact ggtgatgccc ac 272

<210> 112

<211> 413

<212> DNA

<213> Homo sapiens

<400> 112  
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taggtttaac tcggagttag aattctggtt ttgtttctca cttagggaaa aaaaatagct 180  
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agaaggcatt tgaaaggaat tcttaccgaa cattaacctg ccttggtaac cacagaaggc 360  
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<210> 113

<211> 541

<212> DNA

<213> Homo sapiens

<400> 113  
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aggacgctga ccacacggaa cgtgctgttg gactgctctt cccgcggctt tgtcttggca 240  
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cacgtccacc accacgcattg tgacactcagg ggtccgggag atcatgaggg tgccttggg 360  
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B0213WO seq list.ST25.txt

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<211> 226

<212> DNA

<213> Homo sapiens

<400> 114  
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aaggggttca aaccccaccc cagtaggtgg aggggagcgc ctgccattgg ttgtatTTT 180  
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<210> 115

<211> 439

<212> DNA

<213> Homo sapiens

<400> 115  
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tatggctctt ttttattgtt gagttttat tattacaaaa tcaatttaaa caaataaaag 180  
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ataacgcttc tcaatcacta gtgcggccgc ctgcaggtcg accatatggg agagctccca 420  
acgcgttggaa tgcatagct 439

<210> 116

<211> 175

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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aactaggttt ccctactcac ttccctaaaa agagtgtatgt aggtccacgt gtacc 175

<210> 117

<211> 521

<212> DNA

<213> Homo sapiens

<400> 117  
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ggaaggagct tcaggtgagc actgctcatg tgtggatgcc cctgcaacag gcttcctgt 180  
ctgttaggcc aggggtgcaa gtgccatcca cacttgcagt gaatggcttt tccttttagg 240  
tttaagtcct gtctgtctgt aaggcgtaga atctgtccgt ctgtaggcg tagaatgagg 300  
gttgttaatc catcacaagc aaaaggtcag aacagttaaa cactgccttt ctcctccctc 360  
ttatttatg ataaaagcaa atgtggcctt ctcagtatca ttcgattgct atttgagact 420  
tttaaattaa ggtaaaggct gctgggttg gtacctgtgg attttctat actgatgttt 480  
tcgtttgcc aatataatga gtattacatt ggcctctcgt a 521

<210> 118

<211> 131

<212> DNA

<213> Homo sapiens

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<210> 119

<211> 212

<212> DNA

B0213WO seq list.ST25.txt

<213> Homo sapiens

<400> 119  
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gcccagctga tccacgacag gaacaccgcg tccccacaccg cggccggcagc caggacccaa 180  
gcgcgccta cgccagacaa ggtgcagatg ac 212

<210> 120

<211> 137

<212> DNA

<213> Homo sapiens

<400> 120  
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aggcaatcca cccaaacc 137

<210> 121

<211> 265

<212> DNA

<213> Homo sapiens

<400> 121  
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aaaatgtgtt cttaaaatgc aatactatct cgaggcagtt taaattctaa caataggagc 180  
ctacatacca gatggcttg aaatattac aggtcctctt tgcctgaatt ttttagttatc 240  
caggaacaac cattataact tatac 265

<210> 122

<211> 285

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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acccaaacaga cgtctggct ccagtcctgt ttttactttc aaaaaccaac aagcccgaca 240  
gtggagcctg tccccctcccg ggagggtgct catggcccca ctcac 285

<210> 123

<211> 269

<212> DNA

<213> Homo sapiens

<400> 123  
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gaggagatga ctctaattgt tcaatataatt tcatggtaact taatttatgt ggcggggata 180  
acgcttctca atcactatgt cggccgcctg caggtcgacc atatggaga gctcccaacg 240  
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<210> 124

<211> 203

<212> DNA

<213> Homo sapiens

<400> 124  
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ggtgccggccg gaaaccgcag gctgtgtga ccagctcaga gatggcactg gctgcctgct 180  
catcattctc caggtccacc cga 203

<210> 125

<211> 239

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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tcccgggagc tgcgagcatt caggtacgtg aggtagcggt cggggcattt ttccacgcag 180  
atctggggag cgggacattg gaattccagc agaaccaggg ggctggcaca tttcacaat 239

<210> 126

<211> 461

<212> DNA

<213> Homo sapiens

<400> 126  
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cccctagcct ctgcgaccac cccacgccc ccaaccgcaa gagtcggcga cccaagggtgg 180  
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cgcatcacgc ctcctctgca taacgcttct caatcaactag tgccggccgccc tgcaggtcga 420  
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<210> 127

<211> 284

<212> DNA

<213> Homo sapiens

<400> 127  
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agtgcctca gctggactg tttacgggac agaagacgta catgcttcag gaagacatcc 180  
aggtcggtac cataacgctt ctaatca gtcggccgc ctgcaggatcg accatatggg 240  
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<210> 128

B0213WO seq list.ST25.txt

<211> 252

<212> DNA

<213> Homo sapiens

<400> 128

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atatacaacat ccacaatgac cgtaacccac aatagttcag tgacatctgc tgcttcatca 180  
gtaacaatca caacaactat gcattctgaa gcaaagaaaag gatcaaatt tgatactggg 240  
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<210> 129

<211> 382

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (380)..(380)

<223> n = a t c or g

<400> 129

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gcagcataaa gcccagttgc tttgggaagt gtttgggacc agatggattt ttgggagtag 180  
ggtacaatac agtctggtct cttccagctc cttctttctg caacatgggg aagaacaaac 240  
tccttcatcc aagtctggtt cttctcctct tggtcctcct cgctataacg cttctcaatc 300  
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gctttagtat tctatagtgtn tc 382

<210> 130

<211> 305

<212> DNA

B0213WO seq list.ST25.txt

<213> Homo sapiens

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gcccgtcttc ctgggtgcca ctgagagagt tgctggtcac ctgcccggcg tccttcttc 240  
cgtccagacc atacttggcc aagatgacat tgaggttgcg tatgagtctc gcttccttct 300  
cccccc 305

<210> 131

<211> 337

<212> DNA

<213> Homo sapiens

<400> 131  
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gacagccagc tctcatttaa gaatctcaga acttggagg aaggaggaaa tccacattaa 180  
attcttagggc ccaacagaca gagtgcgttcc attgccaccc ccagtagtgg ggactacagt 240  
gcacctgttag tcccaagttaga tgctctgaca tcacagagct tcctgctcta ccagccacc 300  
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<210> 132

<211> 174

<212> DNA

<213> Homo sapiens

<400> 132  
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<210> 133

<211> 113

B0213WO seq list.ST25.txt

<212> DNA

<213> Homo sapiens

<400> 133  
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<210> 134

<211> 191

<212> DNA

<213> Homo sapiens

<400> 134  
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ctagaatgaa ccagtcttac tatgtatcta taaccttgcc tttatctcta ttctaataatg 180  
gtaatctgtt a 191

<210> 135

<211> 1481

<212> DNA

<213> Homo sapiens

<400> 135  
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gaggatggtg tggaaacggc tggcgcgct ggtgatgttc cctctacaga tgatctatct 180  
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gaacgtcctc atcaccggcg gcgggagagg catcggtcg cagctcgccc gcgagttcg 300  
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cctggtgaac aatgccgccc tggtccatgg gaagagccctt atggacagtg atgatgatgc 540  
cctccctcaag tcccaacaca tcaacaccctt gggccagttc tggaccacca aggccttcct 600

B0213WO seq list.ST25.txt

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cagcctcagc agtgtgcata gaccatttcc aggagggctt gtcccccagat gctctgcctc	1380
ccgttccaaa acccactcat cctcagcttg cacaactgg ttgaacggca ggaatgaaaa	1440
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<210> 136

<211> 344

<212> DNA

<213> Homo sapiens

<400> 136	
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agttcgcgga gcgcggcgcc agaatgattt ttctctgggg ccggactgagaa aatgcctga	300
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<210> 137

<211> 1088

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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gcgagttcgc ggagcgcggc gccagaaaga ttgttctctg gggccggact gagaatgcc 180  
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aggccttcct gccgcgtatg ctggagctgc agaatggcca catcggtgc ctcaactccg 480  
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gtcaaggcgg gagtggagac caccaaaccc tccaaacaga gcaacaacaa gtacgcggcc 300  
agcagctacc tgagcctgtc cataataacg cttctcaatc actagtgcgg ccgcctgcag 360  
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B0213WO seq list.ST25.txt

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<211> 424

<212> DNA

<213> Homo sapiens

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agagagctgc tcacccaacc ctgccgtccg gggattggct ctgcgggct gcccccaat 180  
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gagccttgg a ccagcagcgt gaagttctgg gtgcggctga ggaccggac tgtggcagg 360  
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<211> 396

<212> DNA

<213> Homo sapiens

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<210> 157

<211> 161

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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<210> 158

<211> 382

<212> DNA

<213> Homo sapiens

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<210> 159

<211> 292

<212> DNA

<213> Homo sapiens

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agtctgttagt tgctcatgaa ccacgcgtt taataaaagg aacattaagt aaattgtagg 180  
tataaaagaa tcagtgcata tctgttaatg tcattgacaa taaaaataca ttatcttctc 240  
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<210> 160

<211> 447

<212> DNA

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	gtgtctgcca tatcttgca tccttcaatg acactttgt ccatgtcact gatcttctg	180
	gcaaggaaac catctgccgt gtgactggtg ggatgaaggt aaaggcagac cgagatgaat	240
	cctcaccata tgctgctatg ttggctgccc aggatgtggc ccagaggtgc aaggagctgg	300
	gtatcaccgc cctacacatc aaactccggg ccacaggagg aaataggacc aagaccctg	360
	gacctccacc caataacgct tctcaatcac tagtgcggcc gcctgcaggt cgaccatatg	420
	ggagagctcc caacgcgtt gatgcat	447

&lt;210&gt; 161

&lt;211&gt; 239

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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	aatggtaaac tttagaggac gctaaaggcct cactaaaata acgcttctca atcactatgt	180
	cggccgcctg caggtcgacc atatggaga gctccaaacg cgttggatgc atagcttga	239

&lt;210&gt; 162

&lt;211&gt; 410

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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	attggcacct tggctgagt cattgacctt cacctggatg accgagtgcc ctatgggct	180
	attctcagat agttcggcct cataggaggg ccgctcaaac ttgggggcgt tgtcattgtt	240
	gtcaagcact gtgacacgca gcagggcact gctggcgcgt ggggggctgc cgccatcctg	300

B0213WO seq list.ST25.txt

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<210> 163

<211> 327

<212> DNA

<213> Homo sapiens

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gatccacatt taaataagga gacagagggt tcataaccagt tagcgggacg ccagccaaat 240  
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<210> 164

<211> 300

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<213> Homo sapiens

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ccaagtcaag aaattgcag ctncgaaag cccactgtgc tcctccccct cataacgctt 240  
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<210> 165

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&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 166

&lt;211&gt; 4839

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 166		
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B0213WO seq list.ST25.txt

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agctgcaata cttataacaat aaattttaca attctttgg 4839

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<211> 200

<212> DNA

<213> Homo sapiens

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<211> 355

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<210> 169

<211> 579

<212> DNA

<213> Homo sapiens

<400> 169  
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Page 105

B0213W0 seq list.ST25.txt

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<211> 310

<212> DNA

<213> Homo sapiens

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ccactacaag	ctgtctgcac	gg	tcc	ttcat	cag	ccgg	cac	agcc	agg	240
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<210> 171

<211> 301

<212> DNA

<213> Homo sapiens

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actc	ag	ta	cc	ag	ct	cg	at	cc	tg	240

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&lt;210&gt; 172

&lt;211&gt; 529

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 173

&lt;211&gt; 1429

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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tgaataaaac	cttacctata	gttgcattta	ctttgctctc	cctagtatac	840
ttctggcagc	tgcttatcaa	ctttattatg	gcaccaagta	taggagattt	900
tggaaacctg	gttacagtgt	agaaaacagc	ttggattact	aagtttttc	960
tccatgttgc	ctacagcctc	tgcttaccga	tgagaaggc	agagagat	1020
acatggctta	tcagcagg	catgcaaata	ttgaaaactc	ttggaatgag	1080
ggagaattga	aatgtatatac	tccttggca	taatgagc	tggcttactt	1140
cagtcacttc	tatcccttca	gtgagcaatg	ctttaactg	gagagaattc	1200
agtctacact	tggatatgtc	gctctgctca	taagtacttt	ccatgttttta	1260
ggaaacgagc	ttttgaggaa	gagtactaca	gattttatac	accaccaa	1320
ctcttgttt	gccctcaatt	gtaattctgg	tagagacgga	gtttcaccgt	1380
atggtctcg	tctcctgacc	tcgtgatccg	ccgccttgg	cctccaaag	1429

<210> 174

<211> 462

<212> PRT

<213> Homo sapiens

<400> 174

Met Glu Ser Ile Ser Met Met Gly Ser Pro Lys Ser Leu Ser Glu Thr  
 1 5 10 15

Cys Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr  
 20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg  
 35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys  
 50 55 60

Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu  
 65 70 75 80

B0213W0 seq list.ST25.txt

Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu  
85 90 95

His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile  
100 105 110

Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser  
115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys  
130 135 140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp  
145 150 155 160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln  
165 170 175

Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu  
180 185 190

Gly Ser Leu Ser Ser Ala Arg Glu Ile Glu Asn Leu Pro Leu Arg Leu  
195 200 205

Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr  
210 215 220

Phe Phe Phe Leu Tyr Ser Phe Val Arg Asp Val Ile His Pro Tyr Ala  
225 230 235 240

Arg Asn Gln Gln Ser Asp Phe Tyr Lys Ile Pro Ile Glu Ile Val Asn  
245 250 255

Lys Thr Leu Pro Ile Val Ala Ile Thr Leu Leu Ser Leu Val Tyr Leu  
260 265 270

Ala Gly Leu Leu Ala Ala Ala Tyr Gln Leu Tyr Tyr Gly Thr Lys Tyr  
275 280 285

Arg Arg Phe Pro Pro Trp Leu Glu Thr Trp Leu Gln Cys Arg Lys Gln  
290 295 300

Leu Gly Leu Leu Ser Phe Phe Ala Met Val His Val Ala Tyr Ser  
305 310 315 320

Leu Cys Leu Pro Met Arg Arg Ser Glu Arg Tyr Leu Phe Leu Asn Met  
325 330 335

B0213WO seq list.ST25.txt

Ala Tyr Gln Gln Val His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu  
340 345 350

Glu Val Trp Arg Ile Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu  
355 360 365

Gly Leu Leu Ser Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn  
370 375 380

Ala Leu Asn Trp Arg Glu Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr  
385 390 395 400

Val Ala Leu Leu Ile Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys  
405 410 415

Arg Ala Phe Glu Glu Glu Tyr Tyr Arg Phe Tyr Thr Pro Pro Asn Phe  
420 425 430

Val Leu Ala Leu Val Leu Pro Ser Ile Val Ile Leu Val Glu Thr Glu  
435 440 445

Phe His Arg Val Ser Gln Asp Gly Leu Asp Leu Leu Thr Ser  
450 455 460

<210> 175

<211> 1329

<212> DNA

<213> Homo sapiens

<400> 175  
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tttgccaaat ccttgaccat tcgacttatt agatgcggct atcatgtggt cataggaagt 120  
agaaatccta agtttgcttc tgaattttt cctcatgtgg tagatgtcac tcatacatgaa  
gatgctctca caaaaacaaa tataatattt gttgctatac acagagaaca ttataacctcc 180  
ctgtgggacc tgagacatct gcttgggtt aaaatcctga ttgatgtgag caataacatg  
aggataaacc agtacccaga atccaatgct gaatatttgg cttcatttatt cccagattct 240  
ttgattgtca aaggatttaa tggatgtctca gcttggcac ttcagttagg acctaaggat  
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360  
420  
480  
540

## B0213W0 seq list.ST25.txt

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agcttggcca	cattttttt	ccttattcc	tttgcagag	atgtgattca	tccatatgct	720
agaaaccaac	agagtgactt	ttacaaaatt	cctatagaga	ttgtgaataa	aacttacct	780
atagttgcca	ttactttgct	ctccctagta	tacctcgac	gtcttctggc	agctgcttat	840
caactttatt	acggcaccaa	gtataggaga	tttccaccc	ggttggaaac	ctggttacag	900
tgtagaaaac	agcttggatt	actaagttt	ttcttcgcta	tggtccatgt	tgcctacagc	960
ctctgcttac	cgatgagaag	gtcagagaga	tatttggttc	tcaacatggc	ttatcagcag	1020
gttcatgaa	atattgaaaa	ctcttggaaat	gaggaagaag	tttggagaat	tgaaatgtat	1080
atctcccttg	gcataatgag	ccttggctta	ctttccctcc	tggcagtcac	ttctatccct	1140
tcagtgagca	atgctttaaa	ctggagagaa	ttcagttta	ttcagatctt	ttgcagctt	1200
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aagcggctgc	ccattacatt	cctcagctgt	ccttgcagtt	agggtacat	gtgactgagt	1320
gttggccag						1329

&lt;210&gt; 176

&lt;211&gt; 419

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 176

Met	Glu	Ser	Ile	Ser	Met	Met	Gly	Ser	Pro	Lys	Ser	Leu	Ser	Glu	Thr
1				5					10					15	

Phe	Leu	Pro	Asn	Gly	Ile	Asn	Gly	Ile	Lys	Asp	Ala	Arg	Lys	Val	Thr
					20				25				30		

val	Gly	val	Ile	Gly	Ser	Gly	Asp	Phe	Ala	Lys	Ser	Leu	Thr	Ile	Arg
					35		40				45				

Leu	Ile	Arg	Cys	Gly	Tyr	His	Val	Val	Ile	Gly	Ser	Arg	Asn	Pro	Lys
						50		55			60				

Phe	Ala	Ser	Glu	Phe	Phe	Pro	His	Val	Val	Asp	Val	Thr	His	His	Glu
						65		70		75		80			

Asp	Ala	Leu	Thr	Lys	Thr	Asn	Ile	Ile	Phe	Val	Ala	Ile	His	Arg	Glu
						85			90			95			

B0213WO seq list.ST25.txt

His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile  
100 105 110

Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser  
115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys  
130 135 140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp  
145 150 155 160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln  
165 170 175

Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu  
180 185 190

Gly Ser Leu Ser Ser Ala Arg Glu Ile Asp Asn Leu Pro Leu Arg Leu  
195 200 205

Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr  
210 215 220

Phe Phe Phe Leu Tyr Ser Phe Val Arg Asp Val Ile His Pro Tyr Ala  
225 230 235 240

Arg Asn Gln Gln Ser Asp Phe Tyr Lys Ile Pro Ile Glu Ile Val Asn  
245 250 255

Lys Thr Leu Pro Ile Val Ala Ile Thr Leu Leu Ser Leu Val Tyr Leu  
260 265 270

Ala Gly Leu Leu Ala Ala Ala Tyr Gln Leu Tyr Tyr Gly Thr Lys Tyr  
275 280 285

Arg Arg Phe Pro Pro Trp Leu Glu Thr Trp Leu Gln Cys Arg Lys Gln  
290 295 300

Leu Gly Leu Leu Ser Phe Phe Ala Met Val His Val Ala Tyr Ser  
305 310 315 320

Leu Cys Leu Pro Met Arg Arg Ser Glu Arg Tyr Leu Phe Leu Asn Met  
325 330 335

Ala Tyr Gln Gln Val His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu  
Page 112

340

B0213WO seq list.ST25.txt  
345 350Glu Val Trp Arg Ile Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu  
355 360 365Gly Leu Leu Ser Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn  
370 375 380Ala Leu Asn Trp Arg Glu Phe Ser Phe Ile Gln Ile Phe Cys Ser Phe  
385 390 395 400Ala Asp Thr Gln Thr Glu Leu Glu Leu Glu Phe Val Phe Leu Leu Thr  
405 410 415

Leu Leu Leu

&lt;210&gt; 177

&lt;211&gt; 940

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 177						
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gatttggaaat	ggagattttg	ccaaatcctt	gaccattcga	cttatttagat	gcggctatca	180
tgtggtcata	ggaagtagaa	atcctaagtt	tgcttctgaa	tttttcctc	atgtggtaga	240
tgtcactcat	catgaagatg	ctctcacaaa	aacaaatata	atatttgg	ctatacacag	300
agaacattat	acctccctgt	gggacctgag	acatctgctt	gtgggtaaaa	tcctgattga	360
tgtgagcaat	aacatgagga	taaaccagta	cccagaatcc	aatgctgaat	atttggcttc	420
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gttaggacat	aaggatgcc	gccggcaggt	ttatatatgc	agcaacaata	ttcaagcgcg	540
acaacaggtt	catgcaaata	ttgaaaactc	ttggaatgag	gaaaaagttt	ggagaattga	600
aatgtatatc	tcctttggca	taatgagcct	tggcttactt	tccctcctgg	cagtcaacttc	660
tatcccttca	gtgagcaatg	ctttaaactg	gagagaattc	agttttatttc	agtctacact	720
tggatatgtc	gctctgctca	taagtacttt	ccatgtttta	atttattggat	ggaaacgagc	780
ttttgaggaa	gagtagtaca	gattttatac	accaccaaac	tttggttcttg	ctttgtttt	840
gccctcaatt	gtaattctgg	tagagacgga	gtttcacccgt	gttagccagg	atggtctcga	900

B0213WO seq list.ST25.txt

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940

<210> 178

<211> 299

<212> PRT

<213> Homo sapiens

<400> 178

Met Glu Ser Ile Ser Met Met Gly Ser Pro Lys Ser Leu Ser Glu Thr  
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Cys Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr  
20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg  
35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys  
50 55 60

Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu  
65 70 75 80

Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu  
85 90 95

His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile  
100 105 110

Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser  
115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys  
130 135 140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp  
145 150 155 160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln  
165 170 175

Gln Val His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu Val Trp  
180 185 190

B0213WO seq list.ST25.txt

Arg Ile Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu Gly Leu Leu  
 195 200 205

Ser Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn Ala Leu Asn  
 210 215 220

Trp Arg Glu Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr Val Ala Leu  
 225 230 235 240

Leu Ile Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys Arg Ala Phe  
 245 250 255

Glu Glu Glu Tyr Tyr Arg Phe Tyr Thr Pro Pro Asn Phe Val Leu Ala  
 260 265 270

Leu Val Leu Pro Ser Ile Val Ile Leu Val Glu Thr Glu Phe His Arg  
 275 280 285

Val Ser Gln Asp Gly Leu Asp Leu Leu Thr Ser  
 290 295

<210> 179

<211> 1388

<212> DNA

<213> Homo sapiens

<400> 179		
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tgtggcata ggaagtagaa atcctaagtt tgcttctgaa tttttccctc atgtggtaga	240	
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agaacattat acctccctgt gggacctgag acatctgctt gtggtaaaa tcctgattga	360	
tgtgagcaat aacatgagga taaaccagta cccagaatcc aatgctgaat atttggcttc	420	
attattccca gattcttgc ttgtcaaagg atttaatgtt gtctcagctt gggcacttca	480	
gtttaggacct aaggatgcc accggcagggt ttatataatgc agcaacaata ttcaagcgcg	540	
acaacaggtt attgaacttg cccgccagtt gaatttcatt cccattgact tgggatcctt	600	
atcatcagcc agagagatttggaaatattacc cctacgactc tttactctct ggagagggcc	660	
agtgggtgtt gctataagct tggccacatt tttttccctt attcctttgt cagagatgtg	720	

B0213WO seq list.ST25.txt

attcatccat atgctagaaa ccaacagagt gactttaca aaattcctat agagattgtg	780
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ctggcagctg cttatcaact ttattacggc accaagtata ggagattcc accttggtg	900
gaaacctggt tacagtgttag aaaacagctt ggattactaa gtttttctt cgctatggc	960
catgttgcct acagcctctg cttaccgatg agaaggta tgcaaataatt gaaaactctt	1020
ggaatgagga agaagttgg agaattgaaa tgtatatctc cttggcata atgagcctt	1080
gcttactttc ctcctggca gtcacttcta tcccgtcagt gagcaatgct ttaaactgga	1140
gagaattcag ttttattcag tctacacttg gatatgtcgc tctgctcata agtactttc	1200
atgtttaat ttatggatgg aaacgagctt ttgaggaaga gtactacaga ttttatacac	1260
caccaaactt tgttcttgct ctttttgc cctcaattgt aattctggta gagacggagt	1320
ttcaccgtgt tagccaggat ggtctcgatc tcctgacctc gtgatccgccc cgccttggcc	1380
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<210> 180

<211> 234

<212> PRT

<213> Homo sapiens

<400> 180

Met Glu Ser Ile Ser Met Met Gly Ser Pro Lys Ser Leu Ser Glu Thr  
1 5 10 15

Cys Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr  
20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg  
35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys  
50 55 60

Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu  
65 70 75 80

Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu  
85 90 95

His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile  
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## B0213WO seq.list.ST25.txt

100

105

110

Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser  
 115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys  
 130 135 140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp  
 145 150 155 160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln  
 165 170 175

Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu  
 180 185 190

Gly Ser Leu Ser Ser Ala Arg Glu Ile Glu Asn Leu Pro Leu Arg Leu  
 195 200 205

Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr  
 210 215 220

Phe Phe Ser Phe Ile Pro Leu Ser Glu Met  
 225 230

<210> 181

<211> 1425

<212> DNA

<213> Homo sapiens

<400> 181  
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 gattggaagt ggagatttg ccaaattcctt gaccattcga cttatttagat gcggctatca 180  
 tgtggtcata ggaagttagaa atcctaagtt tgcttctgaa tttttccctc atgtggtaga 240  
 tgtcactcat catgaagatg ctctcacaaa aacaaatata atatttggatg ctatacacag 300  
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B0213WO seq list.ST25.txt

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gaataaaaacc	ttacctata	ttgcccattac	tttgctctcc	ctagtatacc	ttgcaggct	840
tctggcagct	gcttatcaac	tttattatgg	caccaagtat	aggagatttc	caccttggtt	900
ggaaacctgg	ttacagtgt	gaaaacagct	tggattacta	agtttttct	tcgctatggt	960
ccatgttgcc	tacagcctct	gcttaccgat	gagaaggc	gagagatatt	tgtttctcaa	1020
catggcttat	cagcaggttc	atgcaaata	tgaaaactct	tggaatgagg	aagaagttt	1080
gagaattgaa	atgtatatct	ccttggcat	aatgagcctt	ggcttacttt	ccctcctggc	1140
agtcacttct	atcccttcag	tgagcaatgc	tttaaactgg	agagaattca	gttttattca	1200
gtctacactt	ggatatgtcg	ctctgctcat	aagtactt	catgttttaa	tttatggatg	1260
gaaacgagct	tttgaggaag	agtactacag	atttataca	ccaccaaact	ttgttcttgc	1320
tcttgtttg	ccctcaattg	taattctgga	gacggagttt	caccgtgtt	gccaggatgg	1380
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<210> 182

<211> 461

<212> PRT

<213> Homo sapiens

<400> 182

Met Glu Ser Ile Ser Met Met Gly Ser Pro Lys Ser Leu Ser Glu Thr  
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Cys Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr  
20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg  
35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys  
50 55 60

Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu  
65 70 75 80

B0213WO seq list.ST25.txt

Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu  
85 90 95

His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile  
100 105 110

Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser  
115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys  
130 135 140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp  
145 150 155 160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln  
165 170 175

Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu  
180 185 190

Gly Ser Leu Ser Ser Ala Arg Glu Ile Glu Asn Leu Pro Leu Arg Leu  
195 200 205

Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr  
210 215 220

Phe Phe Phe Leu Tyr Ser Phe Val Arg Asp Val Ile His Pro Tyr Ala  
225 230 235 240

Arg Asn Gln Gln Ser Asp Phe Tyr Lys Ile Pro Ile Glu Ile Val Asn  
245 250 255

Lys Thr Leu Pro Ile Val Ala Ile Thr Leu Leu Ser Leu Val Tyr Leu  
260 265 270

Ala Gly Leu Leu Ala Ala Ala Tyr Gln Leu Tyr Tyr Gly Thr Lys Tyr  
275 280 285

Arg Arg Phe Pro Pro Trp Leu Glu Thr Trp Leu Gln Cys Arg Lys Gln  
290 295 300

Leu Gly Leu Leu Ser Phe Phe Ala Met Val His Val Ala Tyr Ser  
305 310 315 320

Leu Cys Leu Pro Met Arg Arg Ser Glu Arg Tyr Leu Phe Leu Asn Met  
325 330 335

B0213WO seq list.ST25.txt

Ala Tyr Gln Gln Val His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu  
340 345 350

Glu Val Trp Arg Ile Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu  
355 360 365

Gly Leu Leu Ser Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn  
370 375 380

Ala Leu Asn Trp Arg Glu Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr  
385 390 395 400

Val Ala Leu Leu Ile Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys  
405 410 415

Arg Ala Phe Glu Glu Glu Tyr Tyr Arg Phe Tyr Thr Pro Pro Asn Phe  
420 425 430

Val Leu Ala Leu Val Leu Pro Ser Ile Val Ile Leu Glu Thr Glu Phe  
435 440 445

His Arg Val Ser Gln Asp Gly Leu Asp Leu Leu Thr Ser  
450 455 460

<210> 183

<211> 18

<212> PRT

<213> Homo sapiens

<400> 183

Val Glu Thr Glu Phe His Arg Val Ser Gln Asp Gly Leu Asp Leu Leu  
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Thr Ser

<210> 184

<211> 24

<212> PRT

<213> Homo sapiens

B0213WO seq list.ST25.txt

<400> 184

Ile Phe Cys Ser Phe Ala Asp Thr Gln Thr Glu Leu Glu Leu Glu Phe  
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Val Phe Leu Leu Thr Leu Leu Leu  
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<210> 185

<211> 8

<212> PRT

<213> Homo sapiens

<400> 185

Ser Phe Ile Pro Leu Ser Glu Met  
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